Contents Volume 74 (1992)

Vol. 74, Nos. 1+2 (October 28, 1992)

Membrane transference numbers from a new emf method
M. Ottøy, T. Førland, S.K. Ratkje and S. Møller-Holst (Trondheim, Norway) 1

Sorbitan monooleate (Span 80) decomposition during membrane ageing. A kinetic study
I. Abou-Nemeh and A.P. Van Peteghem (Zwijnaarde, Belgium) 9

Water state of Cuprophan (hemodialysis membrane)
G.R. Filho (Uberlândia, Brazil) and W.A. Bueno (Ribeirão Preto, Brazil) 19

Penetrant-plasticized permeation in polymethylmethacrylate
E.S. Sanders, S.M. Jordan and R. Subramanian (Walnut Creek, CA, USA) 29

Calculation of the entrance length of the concentration boundary layer in ultrafiltration and its influence on scale-up
D. Wu and J.A. Howell (Bath, United Kingdom) 37

Ultrafiltration of bentonite suspensions with hollow fiber membranes
C. Gourgues, P. Aimar and V. Sanchez (Toulouse, France) 51

Poly(methyl methacrylate)/(DMF/metal salt) complex membrane for gas separation
J.-Y. Lai, S.-J. Huang and S.-H. Chen (Chung Li, Taiwan) 71

Measurement and analysis of bath-side inferfacial concentration gradients during phase inversion
G.E. Gaides and A.J. McHugh (Urbana, IL, USA) 83

The effects of molecular width on permeation of organic solute through cellulose acetate reverse osmosis membranes
Y. Kiso, T. Kitao, K. Jinno (Tempaku-cho, Toyohashi, Japan) and M. Miyagi (Katata, Ohtsu, Japan) 95

Pervaporation process: membrane conditioning and experimental mass transfer analysis
M. Marin, K. Kalantzi and H. Gibert (Thiverval-Grignon, France) 105

Microporous poly(caprolactam) hollow fibers for therapeutic affinity adsorption
K. Kugel, A. Moseley, G.B. Harding and E. Klein (Louisville, KY, USA) 115

Separation of supercritical CO_2 and ethanol mixtures with an asymmetric polyimide membrane
S.I. Semenova, H. Ohya, T. Higashijima and Y. Negishi (Yokohama, Japan) 131

Determination of osmotic pressure and fouling resistance and their effects on performance of ultrafiltration membranes
M.K. Ko and J.J. Pellegrino (Boulder, CO, USA) 141

Kinetics of membrane-bound enzymes: Validity of quasi-steady-state approximation for a Michaelis–Menten-type reaction
T. Naka (Saitama, Japan) and N. Sakamoto (Ibaraki, Japan) 159

Separation of isopropanol from water by pervaporation using silicone-based membranes
X. Feng and R.Y.M. Huang (Waterloo, Ont., Canada) 171

Concentration of aqueous dimethyl sulfoxide solutions through a chitosan membrane by permeation with a temperature difference
T. Uragami and H. Shinomiya (Osaka, Japan) 183

Gas transport and sub-T_g relaxations in unmodified and nitrated polyarylethersulfones
K.M.P. Kamps, H.A. Teunis, M. Wessling and C.A. Smolders (Enschede, The Netherlands) 193

Letter to the Editor 203
Meeting Announcement 203
Meetings Calendar 205

Vol. 74, No. 3 (November 4, 1992)

Hydrolysis of triolein by lipase in a hollow fiber reactor
M. Goto, M. Goto, F. Nakashio (Fukuoka, Japan), K. Yoshizuka and K. Inoue (Saga, Japan) 207

Separation of yttrium in a hollow fiber membrane
M. Goto, F. Kubota, T. Miyata and F. Nakashio (Fukuoka, Japan) 215

Control of gas permeation via electrohydrodynamic convection in a liquid crystal membrane
C. Wan, R.D. Noble and N.A. Clark (Boulder, CO, USA) 223

Preparation of composite membranes by a spin coating process
J.D. Le Roux and D.R. Paul (Austin, TX, USA) 233

Coupling-constant description of coupled flow and diffusion
E.A. Mason (Providence, RI, USA), L.F. del Castillo and R.F. Rodriguez (Coyoacán, Mexico) 253

Surface diffusion of hydrogen sulfide and sulfur dioxide in alumina membranes in the continuum regime
H.J. Sloot, C.A. Smolders, W.P.M. van Swaaij and G.F. Versteeg (Enschede, The Netherlands) 263

Using micelles to determine the pore size of UF membranes
I. Issid, M. Lavergne and D. Lemordant (Paris, France) 279

Ultrafiltration of protein solutions on ZrO_2 membranes. The influence of surface chemistry and solution chemistry on adsorption
S. Dumon and H. Barnier (St-Paul-lez Durance, France) 289

Erratum 303
Meetings Calendar 304
Author Index Volume 74 (1992) 306
Subject Index Volume 74 (1992) 307